

# System.MethodAccessException Class

```
[ILAsm]
.class public serializable MethodAccessException extends
System.MemberAccessException

[C#]
public class MethodAccessException: MemberAccessException
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Summary

Represents the error that occurs when there is an attempt to access a method outside the scope in which access is permitted.

## Inherits From: System.MemberAccessException

**Library:** RuntimeInfrastructure

**Thread Safety:** All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

## Description

[*Note:* This exception is thrown when the access level of a method in a class library is changed, and one or more assemblies referencing the library have not been recompiled. This exception is also thrown when an attempt to invoke a method via reflection fails because the caller does not have the required permissions.]

## Example

The following example demonstrates a scenario under which `System.MethodAccessException` is thrown.

The following code contains a class with a public method (`MyMethod`). This class is compiled into a class library.

```
[C#]

using System;
namespace TestNameSpace
```

```

1  {
2  public class Class1
3  {
4      public Class1()
5      {
6          Console.WriteLine ("Constructing with public method.");
7      }
8      public void MyMethod ()
9      {
10         Console.WriteLine ("Calling MyMethod.");
11     }
12 }
13 }
14

```

15 The following code references the class library above, and accesses  
16 TestNameSpace.Class1.MyMethod. This code is compiled into an application.

```

17
18 [C#]
19 using System;
20 using TestNameSpace;
21 class AppTest
22 {
23     public static void Main()
24     {
25         Class1 test = new Class1();
26         test.MyMethod();
27     }
28 }
29

```

30 The output of the application is

```

31
32 Constructing with public method.
33

```

```

34
35 Calling MyMethod.
36
37

```

38 The code for the class library is changed and recompiled so that  
39 TestNameSpace.Class1.MyMethod is no longer public. The following code changes MyMethod  
40 from public to private.

```

41
42 [C#]
43 using System;
44 namespace TestNameSpace
45 {
46     public class Class1
47     {
48         public Class1()
49         {
50             Console.WriteLine ("Constructing with private method.");
51         }
52         private void MyMethod ()

```

```
1      {  
2          Console.WriteLine ("Calling MyMethod.");  
3      }  
4  }  
5  }  
6
```

7 When the application is executed again without being recompiled, the output is

```
8  
9 Unhandled Exception: System.MethodAccessException:  
10 TestNameSpace.Class1.MyMethod()  
11  
12  
13 at AppTest.Main()  
14
```

15

# MethodAccessException() Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor()  
  
[C#]  
public MethodAccessException()
```

## Summary

Constructs and initializes a new instance of the `System.MethodAccessException` class.

## Description

This constructor initializes the `System.MethodAccessException.Message` property of the new instance to a system-supplied message that describes the error, such as "Attempt to access the method failed." This message takes into account the current system culture.

The `System.MethodAccessException.InnerException` property of the new instance is initialized to `null`.

# MethodAccessException(System.String)

## Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(string message)

[C#]
public MethodAccessException(string message)
```

### Summary

Constructs and initializes a new instance of the `System.MethodAccessException` class with a specified error message.

### Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.

### Description

This constructor initializes the `System.MethodAccessException.Message` property of the new instance using *message*. If *message* is null, the `System.MethodAccessException.Message` property is initialized to the system-supplied message provided by the constructor that takes no arguments.

The `System.MethodAccessException.InnerException` property of the new instance is initialized to null.

# MethodAccessException(System.String, System.Exception) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(string message, class
System.Exception inner)

[C#]
public MethodAccessException(string message, Exception inner)
```

## Summary

Constructs and initializes a new instance of the `System.MethodAccessException` class with a specified error message and a reference to the inner exception that is the cause of the current exception.

## Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
<i>inner</i>	An instance of <code>System.Exception</code> that is the cause of the current exception. If <i>inner</i> is not a null reference, the current exception was raised in a catch block handling <i>inner</i> .

## Description

This constructor initializes the `System.MethodAccessException.Message` property of the new instance using *message* and the `System.MethodAccessException.InnerException` property using *inner*. If *message* is null, the `System.MethodAccessException.Message` property is initialized to the system-supplied message provided by the constructor that takes no arguments.

[*Note:* For more information on inner exceptions, see `System.Exception.InnerException`.]